T-433 P.002

Attorney Docket No. 110348-133033

Intel P16696

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOV 0 4 2005

In Application of:

House et al.

Application No.: 10/763,46

Filed: January 22, 2004

For: PIVOTABLE SLURRY ARM

Examiner: Hadi Shakeri

Art Unit: 3723

Confirmation No.: 6667

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this date:

1450, Alexandra, VA 22313-1450 on this date

Matter Olda morra de Maria

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Declaration of Inventors Pursuant to 37 C.F.R. § 1.131

Sir:

We, Colby J. House and Herng Liu, hereby declare that:

- 1. We are citizens of the United States of America, and currently are residents of the State of Oregon, residing in or around the greater Portland metropolitan area.
- 2. We are co-inventors of the subject matter of the above-captioned application, as originally declared on or around October 27, 2003, in the combined declaration and power of attorney, filed on or around January 22, 2004.
- 3. We are both employed by Intel Corporation of Santa Clara, California, the assignee. Intel Corporation is an internationally recognized company that files well over a thousand patent applications annually.

Attorney Reference No. 109263-129130 Inte P14927

From-INTEL AL4 2

Oct-10-2005 03:12pm

Patent

T-433 P.003

- To the best of our recollection and as refreshed by attached Exhibits I and II, 4. the subject invention was conceived on or prior to September 20, 2002. Exhibit I is a photocopy of an Inventor Disclosure Form, and Exhibit II shows the creation date of the Inventor Disclosure Form of September 20, 2002. The Inventor Disclosure Form was filed with Intel Corporation's legal department on February 11, 2003, as shown in Exhibit III.
- We additionally declare that we worked diligently with our colleagues in the 5. legal department and our outside patent counsel from at least prior to February 20, 2003, until the filing date of the application on January 22, 2004, to constructively reduce our invention to practice with the filing of the above-captioned application. This diligence is supported by the Inventor Disclosure Form (Exhibits I and II), Exhibit III showing, among other things, that the Invention Disclosure Form was received by Intel Corporation's legal department on or about February 11, 2003, duly reviewed and selected for filing by the Thermomechanical Patent Committee (which reviews hundreds of invention disclosures per quarter), and a new client/matter form (Exhibit IV) from the law firm of our patent counsel, Schwabe, Williamson & Wyatt. Our employer, Intel Corporation (assignee of the application), duly retained the services of the law firm of Schwabe, Williamson & Wyatt, which in turn duly assigned one of their patent counsels on or before April 23, 2003, to draft the subject patent application, which eventually led to the filing on January 22, 2004, after at least two draft iterations which we reviewed and a standard quality review by the Intel Corporation's legal department. Exhibit V is a billing statement from Schwabe, Williamson & Wyatt showing the time spent by their patent counsels throughout 2003 and January 2004 to prepare the subject patent application for filing.

Art Unit: 3723 A/N: 10/763,469 Attorney Reference No. 109263-129130 Inte P14927

Patent

We further declare that all statements made herein of our own individual knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified patent application or any patent issued thereon.

Executed by and on the date(s) as set forth below:

By. (SPI)

Date: 10/9/05

-

Colby J. House

. //.

area Liu

Date: /0//0/05

It is important to provide accurate and detailed information on this form. The information will be used to evaluate your invention for possible filing as a patent application. Invention Disclosure forms MUST be sent electronically via email to your manager/supervisor who should then forward with their approval to our email account "invention disclosure submission." If you have any questions, please call 8-264-0444.

| Last Name: House | First Name: Colby | | M.I. J | |
|--|-----------------------|----------------------------|-----------------------|--|
| Intel Phone Number: 503-613-8310 | Intel Fax Number: | • | Mailstop: RA1-236 | |
| E-mail address: Colby.j.house@intel.com | | | WWID: 10638266 | |
| Citizenship: U.S. | Are you a contractor? | Are you a contractor? Yes: | | |
| Home Address: 2532 NW 4 th Avenue | | | | |
| City: Hillsboro | State: OR | Zip: 97124 | Country: USA | |
| Corporate Level Group: | Division: | | Subdivision: | |
| Supervisor: Bramblett, Thomas | WWID: 10072287 | M/S: RA1-234 | Phone #: 503-613-2598 | |

| Last Name: | First Name: | M.I. | | |
|------------------------|----------------------------|-----------|--------------|--|
| Intel Phone Number: | Intel Fax Number: | Mailstop: | | |
| E-mail address: | | | WWID: | |
| Citizenship: | Are you a contractor? Yes: | | No: | |
| Home Address: | | | | |
| City: | State: | Zip: | Country: | |
| Corporate Level Group: | Division: | | Subdivision: | |
| Supervisor: | WWID: | M/S: | Phone #: | |

| Last Name: | First Name: | First Name: M.I. | | | |
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| Intel Phone Number: | Intel Fax Number: | *• | Mailstop: | | |
| E-mail address: | | | WWID: | | |
| Citizenship: | Are you a contractor? | Yes: | No: | | |
| Home Address: | | | | | |
| City: | State: | State: Zip: | | • | |
| Corporate Level Group: | Division: | | Subdivision: | | |
| Supervisor: | WWID: | M/S: | Phone #: | | |

(PROVIDE SAME INFORMATION AS ABOVE FOR EACH ADDITIONAL INVENTOR)

| 2. Title of Invention: |
|---|
| Motorized slurry arm with or without precision dispense nozzle. |
| Motorized starty arm with or without precision dispense mozzie. |
| · |

- 3. What technology/product/process (code name) does your invention relate to (be specific if you can) All technologies using CMP.
- 4. Include several key words to describe the technology area of the invention in addition to # 3 above: Slurry dispense, CMP, Thin Films, Motorized, process control
- 5. Stage of development (i.e. % complete, simulations done, test chips if any, etc.): Concept
- 6a. Has a description of your invention been (or planned to be) published outside of Intel:

If YES, was the manuscript submitted for pre-publication approval through the Author Incentive Program:

If YES, please identify the publication and the date published:

| 6b. Has your invention been used/sold or planned to be used/sold by Intel or others? | |
|--|--|
| Plans pending for possible trial (usage) on site here at Ronler Acres (Intel). | |
| If YES, date it was sold or will be sold: | |
| No. | |
| | |

6c. Does this invention relate to technology that is or will be covered by a SIG (special interest group)/standard or specification?

If YES, name of SIG/standard/specification: N/A

6d. If the invention is embodied in a semiconductor device, actual or anticipated date of tapeout? N/A

6e. If the invention is software, actual or anticipated date of any beta tests outside Intel: N/A

7. Was the invention conceived or constructed in collaboration with anyone other than an Intel blue badge employee or in performance of a project involving entities other than Intel (e.g. government, other companies, universities or consortia)? NO: No. If YES, name of individual or entity:

N(

8. Is this invention related to any other invention disclosure that you have recently submitted? If so, please give the title and inventors:

No.

PLEASE READ AND FOLLOW THE DIRECTIONS ON HOW TO WRITE A DESCRIPTION OF YOUR INVENTION

Try to limit your description to 2-3 pages
Do NOT attach a presentation, white paper, or specification
ANSWER ALL OF THE QUESTIONS BELOW

Please provide a description of the invention and include the following information:

1. Describe in detail what the components of the invention are and how the invention works.

The motorized slurry arm is composed of three main components: 1. Motor for modulating slurry arm position. 2. Slurry arm for containment of slurry tubing. 3. Slurry tubing that transports slurry from source.

A stepper motor is attached to the slurry arm so that the arm can be swept precisely in real time. In real time, slurry is distributed in a controlled fashion to the head (i.e. how long slurry is applied, what radius of wafer slurry is distributed to).

The slurry arm can be retrofit onto a current CMP toolset or included in initial tool design. The new slurry arm configuration would also allow distribution of single and/or multiple chemicals to be distributed onto the same point on the polish surface by angling the output lines. The dispense arm is intended for multiple chemical line inputs and precise dispersion onto polish surface.

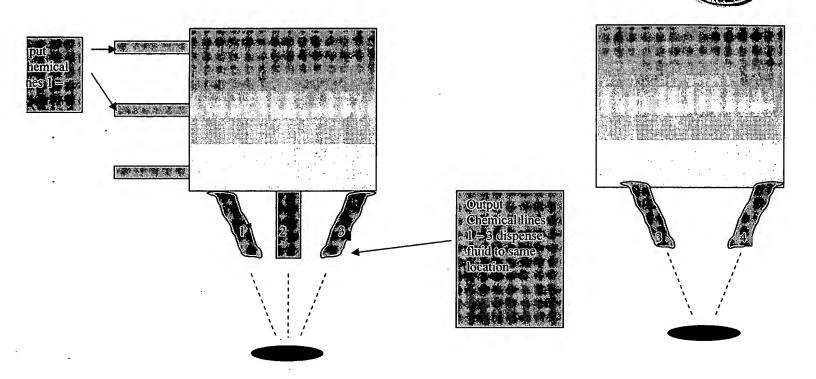
2. Describe advantage(s) of your invention over what is currently being done.

Currently slurry/chemical distribution is provided by a slurry arm that is "fixed" (cannot be controlled in real time). Control of slurry distribution during process would enhance performance and provide more degrees of freedom.

3. You MUST include at least one figure illustrating the invention. If the invention relates to software, include a flowchart or pseudo-code representation of the algorithm.

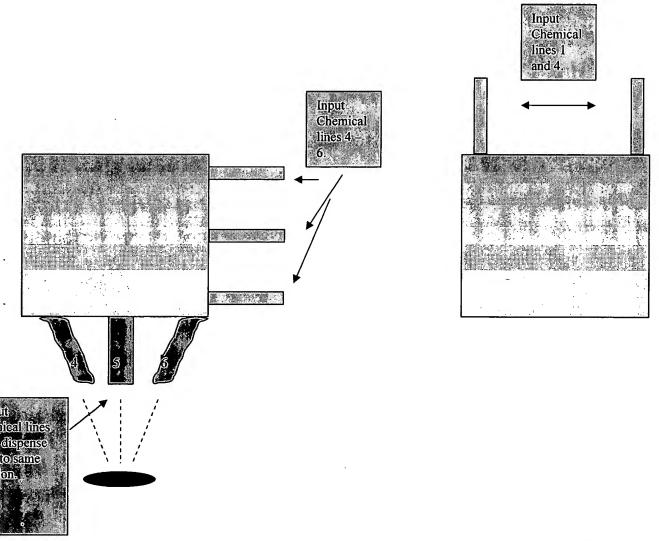
Side View

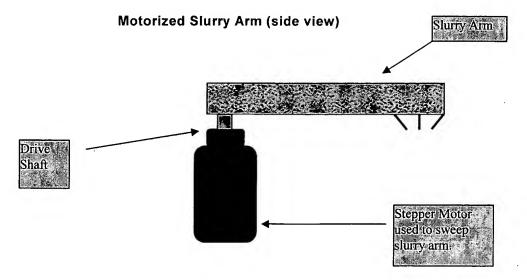
Front View



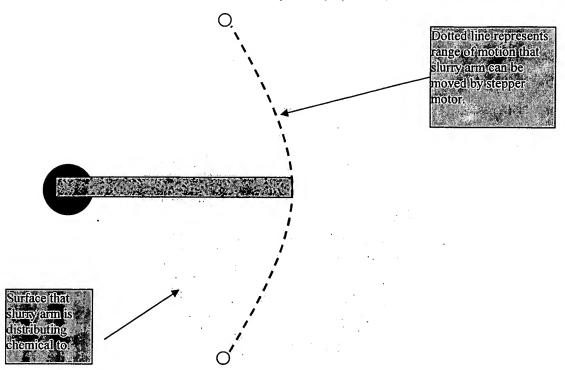
Side View 2







Motorized Slurry Arm (top view)



4. Value of your invention to Intel (how will it be used?).

This invention could be used in any CMP process and any semiconductor wafer manufacturing.

5. Explain how your invention is novel. If the technology itself is not new, explain what makes it different.

Ability to modulate slurry arm position while in process as a process parameter input variable.

- 6. Identify the closest or most pertinent prior art that you are aware of.
 None.
- 7. Who is likely to want to use this invention or infringe the patent if one is obtained and how would infringement be detected?

HAVE YOUR SUPERVISOR READ AND FORWARD IT ELECTRONICALLY VIA E-MAIL TO "INVENTION DISCLOSURE SUBMISSION"

| DATE: | SUPERVISOR: | | |
|-------|---------------|-----------------|---|
| | 001 E1110011. | | _ |

BY APPROVING, I (SUPERVISOR) ACKNOWLEDGE THAT I HAVE READ AND UNDERSTAND THIS DISCLOSURE, AND RECOMMEND THAT THE HONORARIUM BE PAID

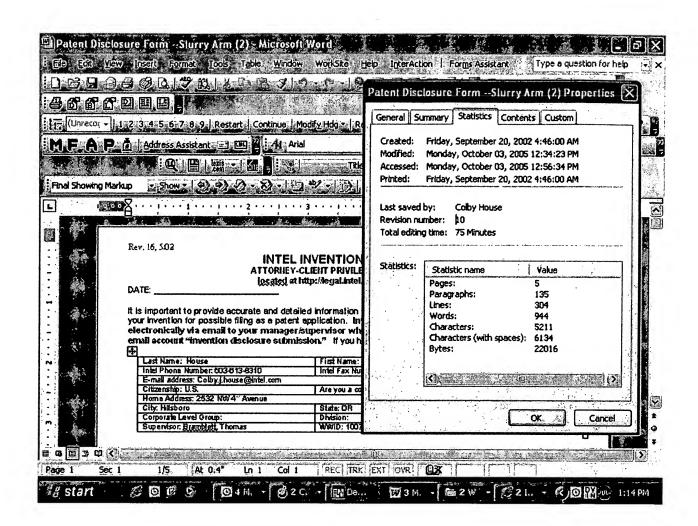


Exhibit II Page | of |

PDX/110348/133033/JJN/1351175.1

Namiki, James J.

From: House, Colby J [colby.j.house@intel.com]

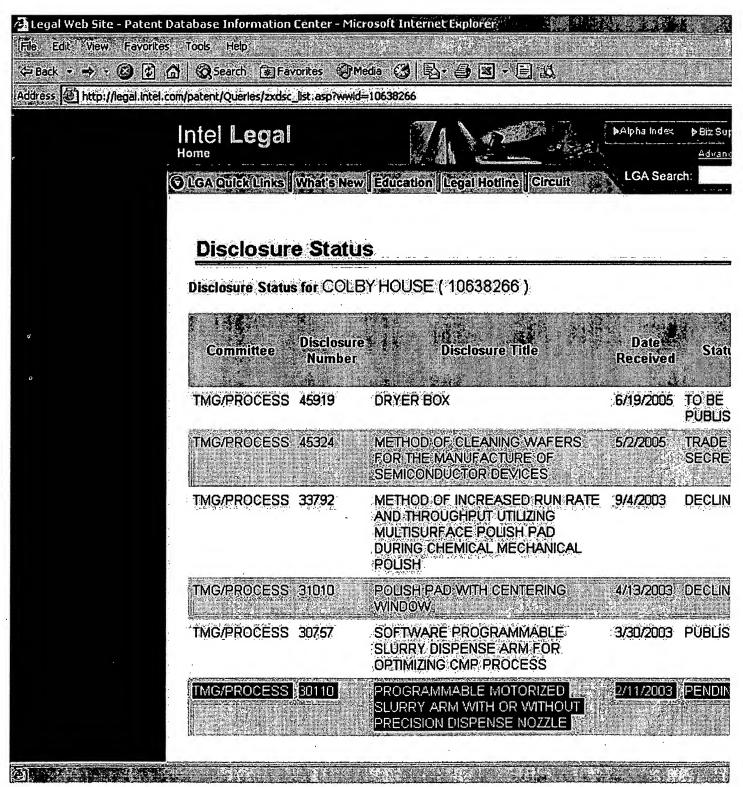
Sent: Monday, October 03, 2005 1:37 PM

To: Namiki, James J.; Liu, Herng

Subject: RE: Patent Application for Slurry Arm Invention

James,

See below for date of disclosure date received (Feb 11, 2003):



SCHWABÉ WILLIAMSON & WYATT

P.C. ATTORNEYS AT LAW

NEW CLIENT/MATTER FORMER

Date 04/23/2003

Prepared by

EXISTING CLIENT

NOV U 4 2005

CLIENT INFORMATION

| Client Model | 110348 | | | Client # | 110348 | | | |
|-----------------|---|----------------------|------------|----------------|---------------|--|--|--|
| Client Name 1 | Client Name 1 INTEL LEGAL - PPG/TMG-PROCESS | | | | | | | |
| Client Name 2 | | | | | | | | |
| Address Line 1 | 1 INTEL CORPORATION | | | | | | | |
| Address Line 2 | DAVID SIMON | DAVID SIMON | | | | | | |
| Address Line 3 | CHIEF PATENT (| CHIEF PATENT COUNSEL | | | | | | |
| Address Line 4 | C/O MALOU DE I | LEON, | SC4-203 | | | | | |
| Address Line 5 | 2200 MISSION C | COLLE | GE BLVD | | | | | |
| Address Line 6 | SANTA CLARA, C | CA 9 | 5052 | | | | | |
| City | SANTA CLARA | | | State CA | | | | |
| Zip | 95052 | Co | ountry | | | | | |
| Intern'l Prefix | | Pł | none # (4) | 08) 765-6886 | 5 | | | |
| Fax # | | | SS/Tax I | D. | | | | |
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MATTER INFORMATION

| Matter Model 110348-1320 | 026 | Matter # WFM 113198 | | | | |
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| Matter Description P16696 | - PROGR | AMMABLE MOTORIZED SLURRY ARM WITH | | | | |
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| Additional Desc. | | | | | | |
| Department BUSN | Busine | ss & Corporate | | | | |
| Practice 110 PT | Patent | s and Trademarks | | | | |
| Primary Billing Atty. TFH Timothy F Haslach | | | | | | |
| Location 01 | Portland | | | | | |
| Supervising Atty. JKL | Klindt | worth, Jason K | | | | |
| Court/Case # | | Date of Service | | | | |
| Claim # | | Date of Injury/Date of Loss | | | | |
| Opposing Counsel | | | | | | |
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MATTER INFORMATION (continued)

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BUSINESS REVIEW INFORMATION

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| Please conti | inue to the next p | pageto Records Informa | ation section. | | |
| Special Rate | e Approval | | | | |

Exhibit <u>TV</u>
Page <u>3</u> of <u>5</u>

APPROVAL & FINALIZATION

Practice Group Approval

Cliff, Michelle M.

Date

04/24/2003

Record Center Signature

Cliff, Michelle M.

Date

04/24/2003

The program will use the Autonumbering system method to assign new Client Number. If you wish to change this, please enter the Client Number into the appropriate field. Please also enter the Matter Number and press the "Save Data" button.

Client Number:

110348

Matter Number:

133033

Assign Client Number:

110348

Assign Matter Number:

110348-133033

04/24/2003 15:18

RECORDS INFORMATION

Number of folders 1

Folders bar code

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2

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Batch Number: 30925

Exhibit IV
Page 5 of 5

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| 05/27/2003 | PJF | Paul J Fordenbacher | 6.75 | | Review Invention disclosure, drafting patent | 110348-133033 | 4131741 |
| 02/06/2004 | | Invoice=874739 | 0.00 | | application | 110010 10000 | 4101/41 |
| | | | | | OF | | |
| 05/28/2003 | PJF | Paul J Fordenbacher | 4.25 | | Continue drafting patent application | 110348-133033 | 4131743 |
| 02/06/2004 | | Invoice=874739 | 0.00 | 0.00 | 5 | | |
| 05/29/2003 | PJF | Paul J Fordenbacher | 8.33 | 1 666 00 | Continue drafting patent application NOV 12005 | 110348-133033 | 4131744 |
| 02/06/2004 | | Invoice=874739 | 8.33 | 1,666.00 | NOV 4 5 | 110340-133033 | 4131744 |
| | | | | | | | |
| 05/30/2003 | PJF | Paul J Fordenbacher | 9.25 | 1,850.00 | Continue drafting patent application | 110348-133033 | 4131745 |
| 02/06/2004 | | fnvoice=874739 | 9.25 | 1,850.00 | Continue drafting patent application | | |
| 06/17/2003 | PJF | Paul J Fordenbacher | 2.05 | 650.00 | | 440240 422022 | 145000 |
| 02/06/2004 | FJF | Invoice=874739 | 3.25 3.25 | 650.00 | Drafting patent application | 110348-133033 | 4150224 |
| 020072001 | | 11110100-014103 | 5.25 | 000.00 | | - [| |
| 06/25/2003 | PJF | Paul J Fordenbacher | 2.00 | 400.00 | Application preparation, submit first draft for | 110348-133033 | 4156553 |
| 02/06/2004 | | Invoice=874739 | 2.00 | 400.00 | review | | |
| | | | | | | | |
| 09/11/2003 | ATA | Aloysius T (Al) AuYeung | 3.50 | | Reviewed and revised patent application | 110348-133033 | 4223304 |
| 02/06/2004 | | Invoice=874739 | 3.50 | 1,242.50 | | | |
| 09/16/2003 | ATAW | Aloysius T (Al) AuYeung | 1.25 | 443.75 | Revised patent application | 110348-133033 | 4227122 |
| 02/06/2004 | | Invoice=874739 | 1.25 | 443.75 | | | |
| | | | | | | | |
| 09/17/2003 | ATA | Aloysius T (Al) AuYeung | 1.00 | | Revised patent application | 110348-133033 | 4227080 |
| 02/06/2004 | | Invoice=874739 | 1.00 | 355.00 | | | |
| 09/18/2003 | ATA | Aloysius T (Al) AuYeung | 0.50 | 177 50 | Revised patent application | 110348-133033 | 4227093 |
| 02/06/2004 | | Invoice=874739 | 0.50 | 177.50 | | 110010 10000 | 122,000 |
| | | | | | | | |
| 09/18/2003 | RLS | Rachel L Bradfute | 0.60 | | Prepare formal documents for inventor signature | 110348-133033 | 4229860 |
| 02/06/2004 | | Invoice=874739 | 0.60 | 60.00 | | | |
| 10/28/2003 | CJL | Christopher J Lewis | 0.20 | 35.00 | Followup with QR on status of application; | 110348-133033 | 4261317 |
| 02/06/2004 | CUL | Invoice=874739 | 0.20 | 35.00 | Tollowup with QR on status of application, | 110346-133033 | 4201317 |
| | | | | | | | |
| 01/13/2004 | ATA | Aloysius T (Al) AuYeung | 0.50 | 177.50 | Verified formal drawings | 110348-133033 | 4322519 |
| 02/06/2004 | | Invoice=874739 | 0.50 | 177.50 | | | |
| 01/22/2004 | ATA | Alausius T (Al) Autous | 0.50 | 407.50 | Continue la constant de Cita | 440040 400000 | 1000105 |
| 01/22/2004 | ATA | Aloysius T (AI) AuYeung Invoice=874739 | 0.50 0.50 | * | Services in connection with filing non-provisional patent application | 110348-133033 | 4328125 |
| OBCOLUT. | | 13110100-014103 | 0.50 | 107.50 | Tor-provisional patent application | | |
| 01/22/2004 | HLA | Heather L Adamson | 0.75 | 82.50 | Service in connection with filing Patent | 110348-133033 | 4324891 |
| 02/06/2004 | | Invoice=874739 | 0.75 | 82.50 | Application, including preparing and filing | | |
| | | | | | transmittal package, and post-filing processing | | |
| 05/03/2004 | HLA | Heather L Adamson | 0.10 | 11.00 | Constant rendered in connection with reviewing | 110348-133033 | 4420250 |
| 06/07/2004 | IILA . | Invoice=885299 | 0.10 | | Service rendered in connection with reviewing and processing Filing Receipt | 110346-133033 | 4420259 |
| | | | | | · | | |
| 08/12/2004 | HLA | Heather L Adamson | 0.10 | 11.50 | Service rendered in connection with reviewing | 110348-133033 | 4508374 |
| 09/08/2004 | | Invoice=893301 | 0.10 | 11.50 | and processing Notice of Recordation of | | |
| | | | | | Assignment | | |
| 02/17/2005 | HLA | Heather L Adamson | 0.25 | 30.00 | Service in connection with reviewing and | 110348-133033 | 4685681 |
| 03/09/2005 | | Invoice=908471 | 0.25 | | processing Office Action, and uploading and | 110040-100000 | 7000001 |
| | | | | | updating CPA | | |
| | | | | | | | |
| 03/02/2005 | ATAW | Aloysius T (Al) AuYeung | 0.25 | | Services in connection with receipt of office | 110348-133033 | 4700360 |
| 05/09/2005 | - | Invoice=913918 | 0.25 | 100.00 | action, including initial review of the same | | |
| 04/12/2005 | MMC | Mark McClure | 4.00 | 720.00 | Review office action; review cited prior art; | 110348-133033 | 4741367 |
| 05/09/2005 | | Invoice=913918 | 4.00 | | review claimed invention; map cited art against | 7,10040 100000 | 77 71307 |
| | | | | | daimed invention | | |
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| 04/13/2005 | MMC | Mark McClure | 7,50 | | Review office action; review cited prior art; | 110348-133033 | 4741370 |
| 05/09/2005 | | Invoice=913918 | 7.50 | | review claimed invention; map cited art against | | |
| | | | | | claimed invention; draft response | + | |
| 04/13/2005 | YLC | Yvette L Chriscaden | 1.10 | 99.00 | Prepare base response to office action for | 110348-133033 | 4743114 |
| 05/09/2005 | | Invoice=913918 | 1.10 | | attomey expansion | | |
| | | | | | | | |
| 04/15/2005 | ATA | Aloysius T (Al) AuYeung | 0.50 | | Reviewed and revised response to office action | 110348-133033 | 4743736 |
| 05/09/2005 | | Invoice=913918 | 0.50 | 200.00 | | | |
| | | <u> </u> | | | | - Ewhihit T | |

Exhibit I of 2

| Cato. | . Calling | redunities loval (committee) | Clouis | Amount | Description | . Caller Clumber | (Index |
|------------|-----------|------------------------------|--------|-----------|--|------------------|---------|
| 04/16/2005 | MMC | Mark McClure | 0.80 | 144.00 | Review and revise response | 110348-133033 | 4741375 |
| 05/09/2005 | | Invoice=913918 | 0.80 | 144.00 | | | |
| 04/18/2005 | YLC | Yvette L Chriscaden | 0.30 | 27.00 | Services in connection with preparation of | 110348-133033 | 4743125 |
| 05/09/2005 | | Invoice=913918 | 0.30 | 27.00 | response to office action and accompanying | | |
| | | | | | documentation for filing | | |
| 04/18/2005 | ATA | Aloysius T (Al) AuYeung | 0.25 | 100,00 | Services in connection with filing response to | 110348-133033 | 4749106 |
| 05/09/2005 | | Invoice=913918 | 0.25 | 100.00 | office action | | |
| | | BILLED TOTALS: WORK: | 57.78 | 12,319.75 | 26 records | | |
| | | BILLED TOTALS: BILL: | 46.78 | 10,119.75 | | | |
| | | GRAND TOTALS: WORK: | 57.78 | 12,319.75 | 26 records | | |
| | | GRAND TOTALS: BILL: | 46.78 | 10,119.75 | | | 1 |

Exhibit $\underline{\underline{\mathbf{Y}}}$ Page $\underline{\mathbf{A}}$ of $\underline{\mathbf{A}}$